LArSoft

	2021-3				2021-4				2021-5				2021-6				2021-7				2021-8		
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
LArSoft						**LArSoft**																			
Introducing IDs for photon detector geometry	**Assigned**																								
recob::PCAxis uses nested vector to represent (...)	**Assigned**																								
Pedestal passed by mutable reference in raw.cxx (...)	**Resolved**																								
raw.cxx Uncompress gives wrong results for (...)	**Assigned**																								
AlgoThreshold_test needs to be fixed	**Assigned**																								
memory access error in larana/CosmicRemoval/BeamFlashTrackMatchTaggerAlg.cxx	**Assigned**																								
Have a uniform way to identify decay/stopping (...)	**Assigned**																								
TPC Active Volume	**Resolved**																								
Provide a better way to simulate non-standard (...)	**Assigned**																								
Remove unused code for optical and shower (...)	**Assigned**																								
FLUKA interface with LArSoft	**Assigned**																								
Refactoring LArG4	**Resolved 99%**																								
Finish documentation for LArG4 Restructure	**Resolved**																								
Include paths in FHiCL include directives	**Accepted**																								
Talk to Pandora about exporting their Pandora (...)	**Assigned**																								
Memory errors and leaks	**Assigned**																								
PhotonVisibilityService should be factorised	**Accepted**																								
Lack of activating the Geant4 visualization (...)	**Assigned**																								
larpandora repository - history includes (...)	**Assigned**																								
MCRecoPart uses non-portable coordinate system	**Resolved**																								
Memory errors and leaks	**Assigned**																								
Conflict between DUNE and MicroBooNE code	**Resolved**																								
Support detectors with drift direction different (...)	**Assigned**																								
Update event display to support arbitrary (...)	**Assigned**																								
Verify that the wire and optical calibration (...)	**Assigned**																								
Update PMA to support any drift direction (...)	**Assigned**																								
LArG4 MCParticle hierarchy information	**Resolved**																								

MARLEYGen module fails to use loaded nuclear (...)	**Resolved**
OpFlashAlg incompatible with multi-TPC detectors	**Assigned**
Migrating LArSoft to SPACK build system	**Assigned**
Remove legacy data members from recob::Track	**Assigned**
Update the reconstruction algorithms to support (...)	**Assigned**
Add geometry tests in the integration test	**Assigned**
Provide module-independent ionization transportation (...)	**Assigned**
Backtracker fails on corsika in-time MC	**Assigned**
problems using feature/dgg_lightprop	**Resolved**
Cannot run g4 in argoneut simulation	**Resolved**
Memory deallocation error running MicroBooNE (...)	**Resolved**
Remove DUNE-specific code from GeometryGeo	**Resolved**
Zero length steps during LArG4	**Resolved**
Floating Point Exceptions	**Assigned**
floating point divide by zero in tca:MCSMom	**Resolved**
Floating point divide by zero in TrajClusterAlg::UpdateTraj	**Resolved**
Floating point divide by zero in ClusterParamsAlg::RefineDirection	**Assigned**
Floating point divide by zero in EMShowerAlg.cxx	**Assigned**
Update wiki pages to reflect the new repository (...)	**Accepted**
Space Charge Effects (SCE) can shift the (...)	**Accepted**
Create an example about how to produce a (...)	**Assigned**
create an art example	**Assigned**
create a gallery example	**Assigned**
'Global wire' coordinate within LArSoft geometry	**Assigned**
Add geometry infrastructure for support (...)	**Feedback**
Design and implement global wire coordinate (...)	**Assigned**
environment variable to ctskelgen	**Assigned**
Large memory usage in SpacePointSolver for (...)	**Assigned**
Make Doxygen show full paths for header #include (...)	**Assigned**
Fix event display so that hits associated (...)	**Assigned**
MARLEYHelper fails to load ROOT-based neutrino (...)	**Resolved**
Vectorization of LArSoft Code	**Assigned**
setting up and running LArSoft on laptop (...)	**Assigned**
Investigate potential areas where vectorization (...)	**Assigned**

Preliminary vectorization tests and (...)	**Assigned**
Segmentation fault when MergeWithinTPC "on"	**Assigned**
problem with the debug build of larreco on (...)	**Assigned**
lariov::SIOVChannelStatusProvider depends (...)	**Assigned**
Need of update translation of GENIE interaction (...)	**Work in progress**
Potential Lack of Simulation of Recoil Nuclei (...)	**Assigned**
An exception occurs in the HitRefinerAssociator (...)	**Accepted**
fhicl options mismatch in lareventdisplay	**Feedback**
Names associated to pdg codes in Style.cxx (...)	**Feedback**
Inconsistent documentation of geo::GeometryCore::NearestWireID() (...)	**Assigned**
python tools	**Assigned**
reconsider the doxygen build	**Assigned**
Inconsistent information in GENIE MCTruth (...)	**Accepted**
Have raw::RawDigit report their time reference (...)	**Assigned**
Redesign of the timing associated to the (...)	**Assigned**
detinfo::DetectorClocksStandard::ExternalClock() (...)	**Assigned**
new warning from gcc 6.4.0 in larreco TrackFinder	**Resolved**
Failure of FindManyInChainP when the associated (...)	**Accepted**
Track length based only on ValidPoints (i.e. (...)	**Assigned**
larsoft-v06_70_00 unable to run larsoft event (...)	**Resolved**
Selective loading of detector data	**Assigned**
Re-architecture of art services in LArSoft (...)	**Assigned**
SingleGen: handle negative momentum values	**Assigned**
Pixel-detectors within LArSoft.	**Assigned**
Hit finding at the edge of a waveform gives (...)	**Feedback**
EMShowerAlg requires Backtracker service (...)	**Assigned**
Move initialisation of CorsikaGen from constructor (...)	**Accepted**
Workaround for Clang bug on array initialisation	**Accepted**
Workaround for GenVector classes not being (...)	**Accepted**
Restore fuzzyCluster to a reasonable memory (...)	**Accepted**
building larwirecell with c2	**Resolved**
Restore tensorflow-dependent code disabled (...)	**Assigned**
sam_web_client, python, SLF7, and larsoft (...)	**Feedback**
Overload BackTracker HitToTrackIds to accept (...)	**Assigned**

Create internal implimentation of ParticleList (...)	Feedback
SimpleBoundary() should be moved from DetectorProperties (...)	Under Discussion
Documentation of momentum calculator not (...)	Assigned
Make Qt and PyQt 4/5 official ups products	Assigned
Update list of external packages used in (...)	Assigned
Put code LArSoft repositories under Apache (...)	Assigned
building larsoft with e17	Resolved
Update nuwro version	Assigned
Bug in ISCalcSeparate::EFieldAtStep	Resolved
PhotonBackTracker OpFlash Matching Prep is (...)	Assigned
GenieGen module requires a cryostat in the (...)	Feedback
Bug in Fiducial Volume Definition in Larsim	Resolved
Update LArSoft infrastructure for GENIE v3.0.2	Resolved
larsim/EventGenerator/GENIE/GENIEGen_module.cc (...)	Assigned
Data overlay infrastructure for LArSoft	Accepted
LArPandora - ProtoDUNEBeamEvent	Assigned
Inconsistent location of wire plane reported (...)	Feedback
Tons of messages for background simulations.	Feedback
Provide a LArSoft geometry example working (...)	Resolved
Remove deprecated getIf() members from data (...)	Feedback
Upgrade PMAlg algorithms for thread safety	Assigned
Make GausHitFinder's dependence on RawDigit (...)	Resolved
Make IsRealData consistent across backtracking (...)	Assigned
Non-standard SpaceCharge interface	Feedback
Update wiki page for new directory structure	Assigned
trtis_clients and tensorflow interfaces need (...)	Assigned
Unusually long run time for first lar command (...)	Assigned
Outdated Wiki Instructions for creating indirection (...)	Assigned
Reproducible events in the refactored LArG4	Resolved
Wrong position of reflective foil on OpFastScintillation (...)	Under Discussion
MRB does not initialise GitFlow	Assigned
Reintroduce FinalStateSelectFilter to LArEvt	Feedback
Scintillation visibility by semi-analytic (...)	Accepted
Opposite channel numbering sorting for OpDets	Feedback

Issue	Status
It is possible to specify inconsistent GDMLs (...)	Assigned
Calorimetry module replacement	Assigned
Implicit conversion loses integer precision (...)	Assigned
restructure larrecodnn	Assigned
Changes to nusimdata -- saving Transportation (...)	Assigned
Update to gallery v1_15	Accepted
Request to provide LArSoft builds for ubuntu (...)	Accepted
Memory footprint increase in ProtoDUNE reconstruction (...)	Assigned
Adding offset in MergeSimSources breaks symmetry (...)	Assigned
need new version of Nvidia Triton (formerly (...)	Assigned
Can't generate events with no neutrino interactions (...)	Assigned
Libtorch v1.6.0 high memory usage	Feedback
LArSoft - v06_69_00	v06_69_00 100%
Trajcluster segfault	Resolved
LArSoft - 2017-3-quarter	
Provide a tool to facilitate the creation (...)	Resolved
LArSoft - 2017-4-quarter	
Decay products in pandora do not start (...)	Accepted
Profiling LArSoft	Assigned
LArSoft - 2018-2-quarter	
Function to return a list of compatible (...)	Under Discussion
LArSoft - 2018-3-quarter	
Establish a standard way to represent (...)	Accepted
LArSoft - 2019-1-quarter	
Load geometry from ROOT file instead (...)	Accepted
Add a compact representation for the (...)	Accepted
review typedef cryo_tpc_view_hitmap	Accepted
Phase 3 Tracking Data Product	Accepted
Provide an interface for access (...)	Accepted
Design an interface for access (...)	Accepted
Pointless __GCCXML__ in LArSoft data (...)	Accepted
LArSoft - develop/HEAD	
TStreamer Error While converting old (...)	Accepted
simultaneous use of auxdetgeometry service (...)	Feedback

ArgoNeuT code	**ArgoNeuT code**
ArgoNeuT uses the existing lifetime (...)	Resolved
larwirecell	**larwirecell**
WireCell::Waveform::percentile throws (...)	New
uBooNE code	**uBooNE code**
Add standard fcl configurations and (...)	New
Experiment-independent access to pedestals (...)	Assigned 50%
Experiment-independent access to database (...)	New
Experiment-independent channel filter (...)	New
Outdated specification for data product (...)	New
RootOutput and fileProperties	New
UBOpReadoutMap bugs	New
SpaceChargeService service is configured (...)	New
SimWireMicroBooNE results are not reproducible	New
Test PropTest uses non-reproducible (...)	New
Hits data product size change in continuous (...)	Resolved
Verify the aggregation criteria for (...)	New
Uboonecode v08_00_00_11	New
Uboonecode v08_00_00_13a	New
MEC dial in GENIE reweight	Assigned
uBAna	uBAna
NTupleInterface ignores fGPhaseSpace (...)	New